

[Yahoo!](#) [My Yahoo!](#) [Mail](#) Welcome, Guest [\[Sign In\]](#)
[Search](#) [Home](#) [Help](#)
[Web](#) | [Images](#) | [Video](#) | [Audio](#) | [Directory](#) | [Local](#) | [News](#) | [Shopping](#) | [More »](#)
YAHOO! SEARCH O'Gorman, Lawrence

[My Web BETA](#)
[Search Services](#) [Advanced Search](#) [Preferences](#)
[Search Results](#)Results 1 - 10 of about 102,000 for **O'Gorman, Lawrence** - 0.11 sec. ([About this page](#))1. [Larry O'Gorman](#) 

Larry O'Gorman. Larry O'Gorman's Web Page. Fields of Work: Image processing, pattern recognition, security. End-user security. ... Contact Information: Lawrence O'Gorman. Avaya Labs, Room 1B04 ...
www.research.avayalabs.com/user/logorman - 15k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

2. [Index file section O for computer1990](#) 

... see Berghel, H. O'Gorman, Lawrence, 25(7)5–8, 25(9)17–26, 25(9)17–26–1. O'Gorman, Lawrence, see Story, Guy
www.math.utah.edu/ftp/pub/tex/bib/idx/computer1990/o.html - 60k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

3. [Alice M. \(O'Gorman\) McKew](#) 

A regional daily newspaper covering the Merrimack Valley of Massachusetts as well as Southern New Hampshire. ... Alice May 24, 2004 ... She was born in Lawrence on Jan. 22, 1913, the widow of ...
www.eagletribune.com/news/stories/20040527/FN_003.htm - 8k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

4. [Document Image Analysis - Lawrence O'Gorman Book at Yahoo! Shopping](#) 

Yahoo! Shopping is the best place to comparison shop for Document Image Analysis - Lawrence O'Gorman Book. Compare shopping.yahoo.com/p:Document Image Analysis:3001575084 - [More from this site](#) - [Save](#) - [Block](#)

5. [Larry O'Gorman - Biography](#) 

Larry O'Gorman. LAWRENCE O'GORMAN BIOGRAPHY: Lawrence O'Gorman is a Distinguished Member of Technical security.
www.research.avayalabs.com/user/logorman/bio.htm - 14k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

6. [Alibris: Michael Seul](#) 

... by Seul, Michael, and Sammon, Michael J, and O'Gorman, Lawrence. In classic 'cookbook' style, this book presents a
www.alibris.com/search/books/author/Seul, Michael - 40k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

7. [NISTIR 6529 \(PDF\)](#) 

... Catherine J. Tilton. Lawrence O'Gorman. M. Paul Collier ... 3. Lawrence O'Gorman. 4. M. Paul Collier ...
www.itl.nist.gov/div895/isis/bc/cbeff/CBEFF010301web.PDF - 238k - [View as html](#) - [More from this site](#) - [Save](#) - [Block](#)

8. <http://www.stlawu.edu/sports/swim/sluskid.htm> 

... Skidmore College St. Lawrence Univ. v. Skidmore College 10/24/03 ... 3 St. Lawrence University 'B' 2:08.45 2 1) Farre
www.stlawu.edu/sports/swim/sluskid.htm - 18k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

9. [Entry OGorman:1987:CMC from cvgip.bib](#) 

Entry OGorman:1987:CMC from cvgip.bib. Last update: Fri Jul 15 02:13:44 MDT 2005. BibTeX entry. @Article{OGorman:
 O'Gorman, Lawrence, 41(2)229, 51(2)195 ...
www.math.utah.edu/ftp/pub/tex/bib/idx/cvgip/37/3/386-401.html - 20k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

10. [STM \(MOT\) Speaker](#) 

... Lawrence O'Gorman. Lawrence O'Gorman is a Research Scientist at Avaya Labs Research where he works in ... Dr.
www.stevens-tech.edu/motsymposium/info/speaker_gormon.html - 18k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

Results Page:

 1 [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) ► [Next](#)

Your Search: O'Gorman, Lawrence



Didn't find what you needed?

Get answers from real people at [Yahoo! Answers](#).Copyright © 2006 Yahoo! Inc. All rights reserved. [Privacy Policy](#) - [Terms of Service](#) - [Copyright/IP Policy](#) - [Submit Your Site](#)


[Help - Help for Webmasters](#)
[« back to results for "O'Gorman, Lawrence"](#)

Below is a cache of <http://www.research.avayalabs.com/user/o'gorman>. It is a snapshot of the page taken as our search engine crawled the Web. We've highlighted the words: **o'gorman lawrence**

The web site itself may have changed. You can check the [current page](#) (without highlighting) or check for previous versions at [the Internet Archive](#).

Yahoo! is not affiliated with the authors of this page or responsible for its content.

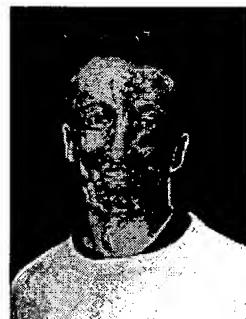

[United States](#)
[Change Country](#)
[Corporate Information](#) [Technology & Innovation](#) [How to Buy](#) [Contact Us](#)

Home

You are Here: [Home](#) > [Technology & Innovation](#) > [Avaya Labs](#) > [Avaya Labs Research](#) > Larry O'Gorman



Larry O'Gorman



Larry O'Gorman's Web Page

Contact Information
 Lawrence O'Gorman
 Avaya Labs, Room 233 Mt. Airy Road
 Basking Ridge, NJ
 tel: 908-696-5211
 fax: 908-696-5402
 e-mail: logormar
 Web:
www.research.avayalabs.com/user/o'gorman

Fields of Work:

- Image processing, pattern recognition, security
- End-user authentication
- My work in the recent few years has combined aspects of signal processing and security. Applications include: biometrics, anti-counterfeiting of documents, and watermarking.

Recent Publications:

- ["Comparing Passwords, Tokens, and Biometrics for User Authentication,"](#) Proceedings IEEE, Vol. 91, No. 12, Dec. 2003, pp. 2019-2040. Paper compares the 3 general types of authenticators with respect to security advantages and disadvantages.
- ["Call center customer verification by query-directed passwords,"](#) Int. Conf. Financial Cryptography, FC'04, Florida, Feb. 2004. Paper describes how QDP (Query-Directed Passwords) can be used for convenient and secure customer authentication at call centers.
- ["Securing Business's Front Door,"](#) 30-Sept-02
Paper describes authentication technologies to a business audience, including passwords, smart cards, biometrics, and future technologies. (Word document.)
- ["Human Authentication: The Achilles Heel of Secure Systems"](#)
Background on human authentication, issues with current technologies, future trends and technologies. Presented at Stevens Institute, 25-Mar-02. (Powerpoint presentation.)
- ["Seven Issues with Human Authentication Technologies"](#) Technological

issues and limitations with human authentication methods as applied to public security applications. Presented at CAIP Symposium on Information Technologies for Homeland Security, Rutgers University on 29-Nov-01. (Powerpoint presentation.)

Other External Publications, Etc:

- [Journal Publications](#)
- [Books](#)
- [Book Chapters](#)
- [Special Issues](#)
- [Standards](#)
- [Conference and Workshop Papers](#)
- [Selected Invited Talks](#)
- [Patents](#)
- [Professional Service](#)

Biography**Exp**[Home](#) [Site Map](#)

© 2002 Avaya Inc. Use of this site indicates you accept the [Terms of Use](#) and the [Privacy Statement](#).



[United States](#)
[Change Country](#)

SEARCH

Go

[Advanced Search](#)

[Corporate Information](#) [Technology & Innovation](#) [How to Buy](#) [Contact Us](#)

[Home](#) [Solutions](#) [Products & Services](#) [Support](#) [Training](#)

You are Here: [Home](#) > [Technology & Innovation](#) > [Avaya Labs](#) > [Avaya Labs Research](#) > [Larry O'Gorman](#) > Publication List

Larry O'Gorman

■ Lawrence O'Gorman Publication List:

User Authentication:

L. O'Gorman, A. Bagga, J. Bentley, "Call center customer verification by query-directed passwords," *Financial Cryptography '04*, Florida, Feb 2004.

L. O'Gorman, "Comparing Passwords, Tokens, and Biometrics for User Authentication," *Proc. IEEE*, Vol. 91, No. 12, Dec. 2003, pp. 2019-2040.

L. O'Gorman, "Seven issues with human authentication technologies," *IEEE Workshop on Automatic Identification Advanced Technologies*, Tarrytown, NY, Mar. 2002, pp. 185-186.

L. O'Gorman, I. Rabinovich, "Secure identification documents via pattern recognition and public-key cryptography," *IEEE PAMI*, Vol. 20, No. 10, Oct. 1998, pp. 1097-1102.

L.O'Gorman, I. Rabinovich, "Photo-image authentication by pattern recognition and cryptography", *Int. Conf. Pattern Recognition (ICPR '96)*, Vienna, Aug. 1996, pp. 949-953.

L.O'Gorman, I. Rabinovich, "Photo-ID encryption and pattern recognition for counterfeit resistance", *CardTech/SecurTech '96*, Atlanta, May, 1996, pp. 253-261.

Biometrics:

X. Xia, L. O'Gorman, "Innovations in fingerprint capture devices," *Pattern Recognition*, Vol. 36, No. 2, Feb. 2003, pp. 361-369.

R. Derakhshani, S. Schuckers, L. Hornak, L. O'Gorman, "Determination of Vitality from A Non-Invasive Biomedical Measurement for Use in Fingerprint Scanners," *Pattern Recognition*, Feb. 2003, pp. 383-396.

Reza Derakhshani, Stephanie Schuckers, Larry Hornak, and L. O'Gorman "Neural Network-Based Approach for Detection of Liveness in Fingerprint Scanners," *2001 Int. Conf. on Artificial Intelligence (IC-AI'2001)*, June 25-28, 2001, Las Vegas, USA.

L. O'Gorman, "Practical Systems for Personal Fingerprint Authentication," *IEEE Computer*, Feb. 2000, pp. 58-60.

L. O'Gorman, "Surmounting hurdles toward successful commercial biometric systems," *IEEE Workshop on Automatic Identification Advanced Technologies*, Summit, NJ, Oct. 1999,

pp. 53-54.

L. O'Gorman, "An overview of fingerprint verification technologies", Elsevier Information Security Technical Report, vol. 3, no. 1, 1998.

D. Inglis, L. Manchanda, R. Comizzoli, A. Dickinson, E. Martin, S. Mendis, P. Silverman, G. Weber, B. Ackland, L. O'Gorman, "A robust, 1.8V, 250 microWatt, direct contact 500dpi fingerprint sensor," IEEE Solid State Circuits Conference, San Francisco, Feb. 1998.

L. O'Gorman, "An overview of fingerprint verification technologies, "Information Security Technical Report, Elsevier Press, Netherlands, Spring, 1998.

L. O'Gorman, "An overview of commercial biometric systems," IEEE Workshop on Automatic Identification Advanced Technologies, Stony Brook, NY, Nov. 1997, pp. 23-26.

L. O'Gorman, Jeffrey V. Nickerson, "An approach to fingerprint filter design", Pattern Recognition, Vol. 22, No. 1, Jan. 1989, pp. 29-38.

L. O'Gorman, Jeffrey V. Nickerson, "Matched Filter Design for Fingerprint Image Enhancement", Int. Conf. Acoustics, Speech, and Signal Processing, April, 1988, NYC, pp. 916-919.

Digital Libraries and Document Security:

J. Brassil, A. Choudhury, D. Kristol, A. Lapone, S. Low, N. Maxemchuk, L. O'Gorman, "SEPTEMBER: Secure Electronic Publishing Trial", IEEE Communications Magazine, vol. 34, no. 5, May 1996, pp. 48-55.

H. Berghel, L. O'Gorman, "Protecting ownership rights through digital watermarking," IEEE Computer, July 1996, pp. 101-103.
<http://www.computer.org/pubs/computer/kiosk/r70101.htm>

J. Brassil, L. O'Gorman, "Watermarking Document Images with Bounding Box Expansion", Proc. First Workshop on Information Hiding, Cambridge University, June 1996.

J. Brassil, S. Low, N. Maxemchuk, L. O'Gorman, "Electronic Marking and Identification Techniques to Discourage Document Copying," IEEE Journal on Selected Areas in Communications, Vol. 13, No. 8, Oct. 1995, pp. 1495-1504.

J.T. Brassil, S. Low, N.F. Maxemchuk, L. O'Gorman, "Marking Text Features of Document Images to Deter Illicit Dissemination", Int. Conf. Pattern Recognition, Israel, pp. 315-319, 1994.

J.T. Brassil, S. Low, N.F. Maxemchuk, L. O'Gorman, "Electronic Marking and Identification Techniques to Discourage Document Copying", IEEE INFOCOM'94, Toronto, Canada, pp. 337-347, June, 1994.

J.T. Brassil, S. Low, N.F. Maxemchuk, L. O'Gorman, "Marking of document images with codewords to deter illicit dissemination", Symposium on Document Analysis and Information Retrieval, 11-13 April, 1994, Las Vegas, pp. 337-347.

M. Hoffman, L. O'Gorman, G.A. Story, J.Q. Arnold, "The RightPages service: An image-based electronic library", J. American Society for Information Science, 44(8), Sept. 93, pp. 446-452.

L. O'Gorman, "Image and document processing techniques for

the RightPages Electronic Library System", Int. Conf. on Pattern Recognition (ICPR), The Hague, Sept. 1992, pp. 260-263.

G.A. Story, L. O'Gorman, D. Fox, L. Schaper, and H.V. Jagadish, "The RightPages image-based electronic library for alerting and browsing", IEEE Computer, Sept. 1992, pp. 17-26.

G.A. Story, L. O'Gorman, D. Fox, L. Schaper, and H.V. Jagadish, "The RightPages: An image-based electronic library alerting and distribution service", Meeting of the American Society for Information Scientists, Santa Clara, CA, April, 1991.

L. O'Gorman, G.A. Story, D. Fox, "The RightPages: An electronic library alerting and distribution service", Proceedings of the Workshop on Syntactic and Structural Pattern Recognition, Murray Hill, NJ, June, 1990, p. 493.

L. O'Gorman, Guy A. Story, David Fox, Louise R. Levy, "An electronic library alerting and distribution service", IAPR Workshop on SSPR, Madison, NJ, June, 1990.

Image Registration:

A. M. Bruckstein, L. O'Gorman, A. Orlitsky, "Design of shapes for precise image registration," IEEE Trans. Information Theory, Vol. 44, No. 7, Nov. 1998, pp. 3156-3162.

L. O'Gorman, "Subpixel Precision of Straight-Edged Shapes for Registration and Measurement", IEEE Trans. Pattern Analysis and Machine Intelligence, Vol. 18, No. 7, Jul. 1996, pp. 746-751.

L. O'Gorman, A.M. Bruckstein, Chinmoy B. Bose, Israel Amir, "A Comparison of Fiducial Shapes for Machine Vision Registration", IAPR Workshop on Machine Vision Applications, Tokyo, Nov. 28-30, 1990, pp. 253-256.

L. O'Gorman, A.M. Bruckstein, Chinmoy B. Bose, Israel Amir, "Subpixel registration using a concentric ring fiducial", 10th Int. Conf. Pattern Recognition, Atlantic City, USA, June, 1990, pp. 249-253.

Document and Graphics Processing:

R. Kasturi, L. O'Gorman, V. Govindaraju, "Document image analysis: A primer," Sadhana, Vol. 27, Part 1, Feb. 2000, pp. 3-22.

L. O'Gorman, "Binarization and multi-thresholding of document images using connectivity", CVGIP: Graphical Models and Image Processing, Vol. 56, No. 6, Nov. pp. 494-506, 1994.

L. O'Gorman, "Experimental comparisons of binarization and multi-thresholding methods on document images", Int. Conf. Pattern Recognition, Israel, pp. 395-398, 1994.

L. O'Gorman, "Binarization and multi-thresholding of document images using connectivity", Symposium on Document Analysis and Information Retrieval, 11-13 April, 1994, Las Vegas, pp. 237-252.

L. O'Gorman, "The document spectrum for structural page layout analysis", IEEE Trans. Pattern Analysis and Machine Intelligence, Vol. 15, No. 11, Nov. 1993, pp. 1162-1173.

L. O'Gorman, "The document spectrum for bottom-up page layout analysis", Structural and Syntactic Pattern Recognition Workshop, Bern, Switzerland, Aug 1992.

L. O'Gorman, G.A. Story, "Subsampling text images", 1st Int. Conf. on Document Analysis and Recognition, St. Malo, France, Sept. 1991, pp. 219-227.

R. Kasturi, S. Siva, L. O'Gorman, "Techniques for line drawing interpretation: An overview" IAPR Machine Vision Workshop, Tokyo, Japan, Dec. 1990.

L. O'Gorman, "k x k Thinning", CVGIP, Vol. 51, pp. 195-215, 1990.

R. Kasturi, L. O'Gorman, R. Raman, C. Chennubhotla, "An overview of techniques for graphics recognition", Structural and Syntactic Pattern Recognition Workshop, Murray Hill, NJ, June, 1990, pp. 192-230.

H. V. Jagadish, L. O'Gorman, "An object model for image recognition", IEEE Computer, Vol. 22, No. 12, Dec, 1989, pp. 33-41.

L. O'Gorman, "Curvilinear feature detection from curvature estimation", 9th Int. Conference on Pattern Recognition, Rome, Italy, Nov., 1988, pp. 1116-1119.

L. O'Gorman, "An analysis of feature detectability from curvature estimation", CVPR, Ann Arbor, MI, June, 1988.

L. O'Gorman, "Primitives Chain Code", Int. Conf. Acoustics, Speech, and Signal Processing, April, 1988, NYC, pp. 792-795.

Francky Catthoor, L. O'Gorman, Rajeev Jain, "An ASIC Architecture for Contour Line Filtering", Int. Conf. Acoustics, Speech, and Signal Processing, April, 1988, NYC, pp. 1056-1059.

L. O'Gorman, Gerald I. Weil, "An approach toward segmenting contour line regions", 8th Int. Conf. Pattern Recognition, Paris, France, Oct., 1986, pp. 254-258.

L. O'Gorman, Gerald I. Weil, "Contour Line Region Segmentation", Vision Interface '86, Vancouver, B.C., May, 1986 pp. 396-400

L. O'Gorman, "Thin line coding for document image compression", Proceedings of the International Electronic Imaging Exposition and Conference, Boston, Sept., 1984, pp. 368-370.

Image and Biomedical Image Processing:

M. Seul, L.R. Monar, L. O'Gorman, "Pattern analysis of magnetic stripe domains: Morphology and topological defects in the disordered state", Philosophical Magazine B, Vol 66, No. 4, 1992, pp. 471-506.

M. Seul, L.R. Monar, L. O'Gorman, R. Wolfe, "Morphology and local structure in labyrinthine stripe domain phases", Science, Vol. 254, 13 Dec. 1991, pp. 1616-1618.

L. O'Gorman, "A note on histogram equalization for optimum intensity range utilization", CVGIP, Vol. 41, Feb., 1988, pp. 229-232.

L. O'Gorman, Arthur C. Sanderson, "A comparison of methods and computation for multi-resolution low- and band-pass transforms for image processing", Computer Vision, Graphics, and Image Processing, Vol. 35, 1986, pp. 276-292.

L. O'Gorman, Arthur C. Sanderson, "The converging squares

algorithm for image feature analysis: properties and extensions", IEEE Trans. Pattern Intelligence and Machine Intelligence, Vol. PAMI-8, No. 4, July, 1986, pp. 520-524.

L. O'Gorman, Arthur C. Sanderson, "A system for automated liver tissue analysis: Methods and results", IEEE Trans. Biomedical Engineering, IEEE Trans. Biomed. Engineering, Vol. BME-32, no. 9, Sept., 1985, pp. 696-706

L. O'Gorman, Arthur C. Sanderson, "The wedge filter technique for convex boundary estimation", IEEE Trans. Pattern Analysis and Machine Intelligence, Vol. PAMI-7, no. 3, May, 1985, pp. 326-332

L. O'Gorman, Lynne Shapiro Brotman, "Entropy-constant image enhancement by histogram transformation", 29th Annual SPIE, San Diego, Aug., 1985, pp. 106-113.

L. O'Gorman, Arthur C. Sanderson, "The converging squares algorithm: An efficient method for locating peaks in multidimensions", IEEE Trans. Pattern Analysis and Machine Intelligence, Vol. PAMI-6, No. 3, May, 1984

L. O'Gorman, Arthur C. Sanderson, "An image analysis package for automated tissue description", Proceedings of the 37th Annual Conference on Engineering in Medicine and Biology, Los Angeles, California, Sept., 1984, p.224

L. O'Gorman, A.C. Sanderson, Kendall Preston Jr., Andrew Dekker, "Image segmentation and nucleus classification for automated tissue section analysis", IEEE Computer Society Conference on Computer Vision and Pattern Recognition, Washington, DC, June, 1983, pp. 89-94

L. O'Gorman, A.C. Sanderson, "The converging squares algorithm: An efficient multidimensional peak picking method", IEEE Int. Conference on Acoustics, Speech, and Signal Processing, Boston, April, 1983, pp. 112-115

Books:

Practical Algorithms for Image Analysis: Description, Examples, and Code, by Michael Seul, Lawrence O'Gorman, and Michael Sammon, Cambridge University Press, 2000.

Executive Briefing on Document Image Analysis, by Lawrence O'Gorman and R. Kasturi, IEEE Computer Society Press, Los Alamitos, CA, 1994, IEEE Computer Society Press Catalog No. BR07802, ISBN 0-8186-7802-X.

Document Image Analysis, by Lawrence O'Gorman and R. Kasturi, IEEE Computer Society Press, Los Alamitos, CA, 1994, IEEE Catalog No. EH0410-1, ISBN 0-8186-6547-5.

Book Chapters:

L. O'Gorman, "Securing Business's Front Door: Password, Token, and Biometric Authentication," in Guarding Your Business: An Architecture for Security, edited by S. Ghosh, M. Malek, E. A. Stohr, Kluwer Press, 2004, Ch. 8.

L. O'Gorman, "Fingerprint Verification," in Biometrics: Personal Identification in Networked Society, edited by Anil Jain, Ruud Bolle, Sharath Pankanti, Kluwer Press, The Netherlands, Nov. 1998, pp. 43-64.

H. Berghel, L. O'Gorman, "Encyclopedia of Information Technology," edited by Williams, J. and K. Sochats, Marcel

Dekker, 1997.

L. O'Gorman, "Basic Techniques and Symbol-Level Recognition—An Overview", in *Graphics Recognition—Methods and Applications*, edited by R. Kasturi, K. Tombre, Lecture Notes in Computer Science, Springer Verlag, 1995.

L. O'Gorman, "Primitives Chain Code", in *Progress in Computer Vision and Image Processing*, edited by A. Rosenfeld and L. G. Shapiro, Academic Press, San Diego, 1992 pp. 167-183.

L. O'Gorman, "The document spectrum for bottom-up page layout analysis", in *Advances in Structural and Syntactic Pattern Recognition*, edited by H. Bunke, Series on Machine Perception and Artificial Intelligence, Vol. 5, World Scientific Publishing Co., 1992, pp. 270-279.

G.A. Story, L. O'Gorman, D. Fox, L. Schaper, and H.V. Jagadish, "The RightPages: An image-based electronic library alerting and distribution service", Chapter 18 in *Studies in Multimedia, Learned Information*, Medford, NJ, 1992.

R. Kasturi, L. O'Gorman, R. Raman, C. Chennubhotla, "An overview of techniques for graphics recognition", Chapter 14 in *Structured Document Image Analysis*, edited by H. Baird, H. Bunke, K. Yamamoto, Springer-Verlag, Heidelberg, pp. 285-324, 1992.

Special Issues:

X. Tang, S. Ma, L. O'Gorman, M. Tistarelli, "Image-and Video-Based Biometrics", (special issue, part I), IEEE Trans. Circuits and Systems for Video Technology, Jan. 2004.

X. Tang, S. Ma, L. O'Gorman, M. Tistarelli, "Image-and Video-Based Biometrics", (special issue, part II), IEEE Trans. Circuits and Systems for Video Technology, Feb. 2004.

L. O'Gorman, T. Pavlidis, "Auto ID Technology: From Barcodes to Biometrics", (special issue), IEEE Robotics and Automation Magazine, Vol. 6, No. 1, Mar. 1999.

L. O'Gorman, R. Kasturi, "Document Image Analysis Systems", (special issue), IEEE Computer, Vol. 25, No. 7, July 1992.

R. Kasturi, L. O'Gorman, "Document Image Analysis Techniques", (special issue, part I), Machine Vision and Applications, Vol. 5, No. 3, Summer 1992.

R. Kasturi, L. O'Gorman, "Document Image Analysis Techniques", (special issue, part II), Machine Vision and Applications, Vol. 6, No. 3, Summer 1993.

Standards:

F. L. Podio, J. S. Dunn, L. Reinert, C. J. Tilton, L. O'Gorman, M. P. Collier, M. Jerde, B. Wirtz, "CBEFF, Common Biometric Exchange File Format," NIST publication NISTIR 6529, Jan 2001 (now ANSI, ISO). <http://www.nist.gov/cbeff>

Common Fingerprint Minutia Exchange Format, Annex C in AAMVA National Standard for the Driver License/Identification Card, AAMVA DL/ID-2000, Jun 2000.
<http://www.aamva.org/aamvanet/indexStandards.html>

BioAPI, Version 1.0, Biometric Application Programmer Interface specification, March 2000. <http://www.bioapi.org>

Articles:

Quarterly article on pattern recognition appears in IAPR Newsletter at www.iapr.org Articles to date:

- “What is Pattern Recognition?” 1-2003
- “Pattern Recognition in Sports,” 2-2003
- “Pattern Recognition in Security and Entertainment,” 3-2003
- “Pattern Recognition in Maps,” 4-2003
- “Pattern Recognition in Defense,” 1-2004.

SELECTED INVITED TALKS:

Rutgers University, CAIP Center (October 2003),

Stevens Institute (March, 2002),

Homeland Security Symposium, Rutgers University (November 2001),

Telcordia Technologies (March 2001), Princeton University (February 2001),

Biometric Consortium Meeting (September 2000),

Asilomar Microcomputer Conference (April 1999),

Lucent Security Symposium (February 1998),

West Virginia University (November 1998),

CardTech/SecurTech (February 1998),

University of Nebraska at Lincoln (Aug 1994),

Xerox PARC (July 1994),

Meeting of the American Society for Information Scientists, (October 1991),

Hitachi Labs (December 1990),

NEC Labs (December 1990),

Penn State University (September 1990),

Sandia National Labs (July, 1988)

U.C. Berkeley (July 1988),

Bell Communications Research (March 1987),

SUNY Stony Brook (March, 1987),

Imperial College (November 1985),

Fairchild Laboratory for Artificial Intelligence Research

(September 1984).

PATENTS GRANTED AND APPLIED:

13 U.S. patents granted

8 U.S. patent applications

Patents Granted:

- US6535622 - Method for imaging fingerprints and concealing latent fingerprints, 18 Mar 2003
- US 6351761 - An information stream management push-pull based server for gathering and distributing articles and messages by the user, 26 Feb 2002
- US06330345 - Automatic adjustment processing for sensor devices, 11 Dec 2001
- US06086706 - Document copying deterrent method, 11 Jul 2000
- US05828792 - Method of reducing document size for digital display, 27 Oct 1998
- US05799092 - Self-verifying identification card, 25 Aug 1998
- US05781658 - Method of thresholding document images, 14 Jul 1998
- US05668874 - Identification card verification system and method, 16 Sept 1997
- US05629770 - Document copying deterrent method using line and word shift techniques, 13 May 1997
- US05557690 - Method and system for locating objects with subpixel precision, 17 Sept 1996
- US05461707 - Method of reducing document size for digital display, 24 Oct 1995
- US05350303 - Method for accessing information in a computer, 27 Sept 1994
- US05224179 - Image skeletonization method, 29 Jun 1993

PROFESSIONAL SERVICE:

- NRC Assessment Panel for NIST Information Technology Lab: 1999-2004
- IEEE Trans. Circuits and Systems for Video Technology, Special Issue on Image- and Video-Based Biometrics, Guest Editor, 2004, Jan., Feb., issues
- IAPR Newsletter Editor: 2002-
- Editorial board member for:
 - Pattern Recognition
 - Machine Vision and Applications
 - International Journal of Document Analysis and Recognition
 - International Journal on Artificial Intelligence Tools (-1998)
- NJ Commission on Science and Technology, Review Committee, 2003
- NJ Center for Pervasive Information Technology, Princeton University, Advisory Board, 1999, 2002
- IEEE Computer Fellow Committee: 1998-2001
- IAPR Fellow Committee: 2000
- IAPR Industrial Liaison Committee: 1994-2000 (chair 1998)
- IEEE Security and Privacy Editor-in-Chief Search Committee, 2002
- IEEE PAMI Editor-in-Chief Search Committee, 1998
- Co-editor, IEEE Trans. Circuits and Systems for Video Technology, Special Issue on Image- and Video-Based Biometrics, 2003
- Associate Editor, Lecture Notes for Computer Science, GREC Issue, 2003

- Industrial Advisory Board, CAIP Center, Rutgers University, 2001-
- IEEE PAMI Editor-in-Chief Search Committee
- IEEE Security and Privacy Editor-in-Chief Search Committee
- Co-chair, IEEE Workshop on Automatic Identification Advanced Technologies, Summit, NJ, Oct. 1999
- Program chair, IEEE Workshop on Automatic Identification Advanced Technologies, Stony Brook, NY, 1997
- IEEE Robotics and Automation TC co-chair on Auto-ID, 1997-
- Lecture Notes for Computer Science, associate editor, GREC Issue, 2002
- Program Committee Member:
 - SPIE Conf. on Biometrics Technology for Human Identification, April 2004, Orlando
 - ICDAR, Int. Conf. Document Analysis and Recognition, 2003, Scotland
 - 3rd Int. Workshop Document Layout Interpretation and App. (DLIA, 2003)
 - 4th Int. Conf. Audio- and Video-based Biometric Person Authentication, 2003, UK
 - IEEE Workshop on Automatic Identification Advanced Technologies, April, 2002, NY
 - IAPR Document Layout Analysis and its Applications (DLIA), Sept 9, 2001, Seattle
 - 10-th International Conference on Database and Expert System applications DEXA' 99, Florence, Italy, Aug 30 - Sept 3, 1999
 - Int'l Workshop on Graphics Recognition, September 1999, Jaipur, India
 - Document Layout Interpretation and its Applications September 18, 1999, Bangalore, India
 - ICDAR'99, Int.I Conf. on Document Analysis and Recognition, Bangalore, India, Sept. 1999
 - IAPR Graphics Recognition (GREC), Nancy, France, 1997
 - ICDAR'97, Int.I Conf. on Document Analysis and Recognition, Ulm, Germany, Sept. 1997
 - ICDAR'95, Int.I Conf. on Document Analysis and Recognition, Montreal, Canada, Aug.. 1995
 - IAPR Graphics Recognition (GREC), Penn State, 1995
 - Int. Conf. Computational Linguistics, Speech, and Document Processing, 18-20 Feb, 1998, India
 - International Workshop on Visual Form (IWVF2), Capri, Italy, May 1994.
 - 11th Int Conference on Pattern Recognition, 1992, Amsterdam
 - IAPR Workshop on Machine Vision Applications, Tokyo, Japan, 1990
 - 10th Int Conference on Pattern Recognition, Atlantic City, NJ. 1990
 - IAPR Workshop on Syntactic and Structural Pattern Recognition in Murray Hill, NJ. Aug., 1990, (also local chair)



[Home](#) [Site Map](#)

© 2002 Avaya Inc. Use of this site indicates you accept the [Terms of Use](#) and the [Privacy Statement](#).

[Yahoo!](#) [My Yahoo!](#) [Mail](#) [Welcome, Guest \[Sign In\]](#)
[Search Home](#) [Help](#)
[Web](#) | [Images](#) | [Video](#) | [Audio](#) | [Directory](#) | [Local](#) | [News](#) | [Shopping](#) | [More »](#)


Xia, Xiongwu

[My Web BETA](#)[Search Services](#)[Advanced Search](#)[Preferences](#)[Search Results](#)Results 1 - 10 of about 59 for **Xia, Xiongwu** - 0.51 sec. ([About this page](#))1. [DBLP: Xiongwu Xia](#)

Xiongwu Xia. List of publications from the DBLP Bibliography Server - FAQ. Ask others: ACM DL - ACM Guide - CiteSee Innovations in fingerprint capture devices. Pattern Recognition 36(2) ...
www.vldb.org/dblp/db/indices/a-tree/x/Xia:Xiongwu.html - 2k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

2. [Keith Price Bibliography author Listing for xia](#)

Index for **xia**. Last update: Nov 17, 2005 at 09:54:18. For comments, etc. use price@usc.edu. This copy is from USC IRIS iris.usc.edu/Old-Notes/bibliography/author/xia.html - 20k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

3. [DBLP: Xiongwu Xia](#)

Xiongwu Xia. List of publications from the DBLP Bibliography Server - FAQ. Coauthor Index - Ask others: ACM DL - ACM Innovations in fingerprint capture devices. Pattern Recognition 36(2) ...
www.informatik.uni-trier.de/~ley/db/indices/a-tree/x/Xia:Xiongwu.html - 2k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

4. [DBLP: Xiongwu Xia](#)

Xiongwu Xia. List of publications from the DBLP Bibliography Server - FAQ. Ask others: ACM - CiteSeer - CSB - Google fingerprint capture devices. Pattern Recognition 36(2) ...
sunsite.informatik.rwth-aachen.de/dblp/db/indices/.../Xia:Xiongwu.html - 2k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

5. [Keith Price Bibliography author Listing for x](#)

... Xi, Y.(3) Xia, A.(1) Xia, D.(1) Xia ... (4) Xia, X.[Xiongwu](1) Xia, X.(1) ...
iris.usc.edu/Old-Notes/bibliography/author/indexx.html - 52k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

6. [\(WO 2005/010200\) CONCURRENT OPTIMIZATION IN SELECTION OF PRIMER AND CAPTURE P](#)

... US/US]; 285 Mercer Street, Stirling, NJ 07980 (US). **XIA, Xiongwu** [CN/US]; 31 Scotto Place, Dayton, NJ 08810 (US).
www.wipo.int/ipdl/IPDL-CIMAGES/view/pct/getbykey5?KEY=05/10200.050203 - 33k - [Cached](#) - [More from this site](#) - [Save](#)

7. [Author-Index](#)

... Xi-Ren, C. **Xia, A.** **Xia, Betty.** **Xia, Bican.** **Xia, Bin.** **Xia, Bing.** **Xia, Bing-bing.** **Xia ... Xia, Xiangdong.** **Xia, Xiao-Qin.** **Xia,** ...
www.vldb.org/dblp/db/indices/a-tree/A3314.html - 7k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

8. [\(WO 01/24700\) SPOOF DETECTION FOR BIOMETRIC SENSING SYSTEMS](#)

... US]; 133 Poplar Drive, BRM, Morgantown, WV 26505 (US). **XIA, Xiongwu** [CN/US]; 31 Scotto Place, South Brunswick
www.wipo.int/ipdl/IPDL-CIMAGES/view/pct/getbykey5?KEY=01/24700.010412 - 34k - [Cached](#) - [More from this site](#) - [Save](#)

9. [Xiongwu Xia Patent Inventor Dayton, NJ, US](#)

... The patent applications displayed for **Xiongwu Xia** are for a recent sample of patent ... a comprehensive listing. If **Xiongwu Xia** has more than 50 patent applications, a sample of 50 will be shown.
www.freshpatents.com/Xiongwu-Xia-Dayton-invdirx.php - 6k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

10. [DBLP: Lawrence O'Gorman](#)

... EE. **Xiongwu Xia**, Lawrence O'Gorman: Innovations in fingerprint capture devices. Pattern Recognition 36(2): 361-369
dblp.uni-trier.de/db/indices/a-tree/o/O=Gorman:Lawrence.html - 18k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)

Results Page:

[1](#) [2](#) [3](#) [4](#) [5](#) [Next](#)
[Web](#) | [Images](#) | [Video](#) | [Audio](#) | [Directory](#) | [Local](#) | [News](#) | [Shopping](#)
| [More »](#)
Your Search:



Didn't find what you needed? Try [Yahoo! Answers](#).

Copyright © 2006 Yahoo! Inc. All rights reserved. [Privacy Policy](#) - [Terms of Service](#) - [Copyright/IP Policy](#) - [Submit Your Site](#)

Lawrence O'Gorman

List of publications from the [DBLP Bibliography Server - FAQ](#)

Ask others: [ACM DL](#) - [ACM Guide](#) - [CiteSeer](#) - [CSB](#) - [Google](#) - [HomePageSearch](#)

2004

19	EE	Lawrence O'Gorman, Amit Bagga, Jon Louis Bentley: Call Center Customer Verification by Query-Directed Passwords. <i>Financial Cryptography</i> 2004: 54-67
18		Xiaoou Tang, Songde Ma, Lawrence O'Gorman, Massimo Tistarelli: Guest Editorial Introduction to the Special Issue on Image- and Video-Based Biometrics. <i>IEEE Trans. Circuits Syst. Video Techn.</i> 14(1): 1-3 (2004)
17		Xiaoou Tang, Songde Ma, Lawrence O'Gorman, Massimo Tistarelli: Guest Editorial: Introduction to the Special Issue on Image- and Video-Based Biometrics - Part II. <i>IEEE Trans. Circuits Syst. Video Techn.</i> 14(2): 146-148 (2004)

2003

16	EE	Xiongwu Xia, Lawrence O'Gorman: Innovations in fingerprint capture devices. <i>Pattern Recognition</i> 36(2): 361-369 (2003)
15	EE	Reza Derakhshani, Stephanie A. C. Schuckers, Larry A. Hornak, Lawrence O'Gorman: Determination of vitality from a non-invasive biomedical measurement for use in fingerprint scanners. <i>Pattern Recognition</i> 36(2): 383-396 (2003)

1998

14	EE	Lawrence O'Gorman, Irina Rabinovich: Secure Identification Documents Via Pattern Recognition and Public-Key Cryptography. <i>IEEE Trans. Pattern Anal. Mach. Intell.</i> 20(10): 1097-1102 (1998)
13		Alfred M. Bruckstein, Lawrence O'Gorman, Alon Orlitsky: Design of Shapes for Precise Image Registration. <i>IEEE Transactions on Information Theory</i> 44(7): 3156-3162 (1998)

1996

12		Jack Brassil, Lawrence O'Gorman: Watermarking Document Images with Bounding Box Expansion. <i>Information Hiding</i> 1996: 227-235
11	EE	Lawrence O'Gorman: Subpixel Precision of Straight-Edged Shapes for Registration and Measurement. <i>IEEE Trans. Pattern Anal. Mach. Intell.</i> 18(7): 746-751 (1996)

1995

10		Lawrence O'Gorman: Basic Techniques and Symbol-Level Recognition - An Overview. <i>GREC 1995</i> : 1-12
9		Steven H. Low, Nicholas F. Maxemchuk, Jack Brassil, Lawrence O'Gorman: Document Marking and Identification Using Both Line and Word Shifting. <i>INFOCOM 1995</i> : 853-860
8		Jack Brassil, Steven H. Low, Nicholas F. Maxemchuk, Lawrence O'Gorman: Electronic Marking and Identification Techniques to Discourage Document Copying. <i>IEEE Journal on Selected Areas in Communications</i> 13(8): 1495-1504 (1995)

1994

7		Jack Brassil, Steven H. Low, Nicholas F. Maxemchuk, Lawrence O'Gorman: Electronic Marketing and Identification Techniques to Discourage Document Copying. <i>INFOCOM 1994</i> : 1278-1287
		Lawrence O'Gorman: Binarization and Multithresholding of Document Images Using Connectivity. <i>CVGIP</i> :

6	Graphical Model and Image Processing 56(6): 494-506 (1994)
---	--

1993	
------	--

5	EE	Lawrence O'Gorman: The Document Spectrum for Page Layout Analysis. <i>IEEE Trans. Pattern Anal. Mach. Intell.</i> 15(11): 1162-1173 (1993)
---	----	--

4	Melia M. Hoffman, Lawrence O'Gorman, Guy A. Story, James Q. Arnold, Nina H. MacDonald: The RightPages Service: An Image-Based Electronic Library. <i>JASIS</i> 44(8): 446-452 (1993)
---	--

1992	
------	--

3	Lawrence O'Gorman, Rangachar Kasturi: Document Image Analysis Systems - Guest Editors' Introduction to the Special Issue. <i>IEEE Computer</i> 25(7): 5-8 (1992)
---	--

2	Guy A. Story, Lawrence O'Gorman, David Fox, Louise Levy Schaper, H. V. Jagadish: The RightPages Image-Based Electronic Library for Alerting and Browsing. <i>IEEE Computer</i> 25(9): 17-26 (1992)
---	--

1989	
------	--

1	H. V. Jagadish, Lawrence O'Gorman: An Object Model for Image Recognition. <i>IEEE Computer</i> 22(12): 33-41 (1989)
---	---

DBLP: [[Home](#) | [Search: Author](#), [Title](#) | [Conferences](#) | [Journals](#)]

Michael Ley (ley@uni-trier.de) Wed Aug 31 19:17:33 2005